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**Český institut pro akreditaci, o.p.s.**  
(Czech Accreditation Institute)  
**Hájkova 2747/22, Žižkov, 130 00 Praha 3**

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

# **CERTIFICATE OF ACCREDITATION**

**No. 435/2025**

**ENERGIZE GROUP s.r.o.**  
**with registered office Tylova 2923, 316 00 Plzeň**  
**Company Registration No. 25231146**

**for the Calibration Laboratory No. 2254**  
**CALIBRATION SERVICE CENTER**

**Scope of accreditation:**

Calibration in the fields of electrical quantities, frequency, pressure, temperature, and air humidity to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

**ČSN EN ISO/IEC 17025:2018**

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

**The Certificate of Accreditation is valid until: 21/08/2030**

**Prague: 21/08/2025**



Signed in the Czech original:  
Gor Petrosjan on 21/08/2025

**Jan Velíšek**  
Director of the Department  
of Testing and Calibration Laboratories  
Czech Accreditation Institute

This translation of the Czech original has been issued by: Andrea Muzikářová



**Accredited entity according to ČSN EN ISO/IEC 17025:2018:**

**ENERGIZE GROUP s.r.o.**  
CAB number 2254, CALIBRATION SERVICE CENTER  
Tylova 2923, 316 00 Plzeň

**CMC for the field of measured quantity: Pressure, mechanical stress**

Ord. number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Location
		min	unit max unit					
1*	Gauge pressure and absolute pressure <sup>4</sup> / deformation and digital manometers and pressure transducers	-95 kPa	to	-2.5 kPa	medium air	60 Pa	Comparison with a digital manometer	92/75-15-1
		-2.5 kPa	to	2.5 kPa		2 Pa	Comparison with a micromanometer	92/75-15-2
		2.5 kPa	to	20 kPa	medium nitrogen	4 Pa	Comparison with a ball manometer	92/75-15-3
		20 kPa	to	200 kPa		2.10 <sup>-4</sup>		
2*	Gauge pressure and absolute pressure <sup>4</sup> / deformation and digital manometers and pressure transducers	0.2 MPa	to	1 MPa		250 Pa		
		1 MPa	to	10 MPa		25.10 <sup>-5</sup>		
2*	Gauge pressure and absolute pressure <sup>4</sup> / deformation and digital manometers and pressure transducers	0.025 MPa	to	0.6 MPa	medium oil	300 Pa	Comparison with a piston manometer	92/75-15-1, 92/75-15-2
		0.6 MPa	to	60 MPa		5.10 <sup>-4</sup>		92/75-15-3
3*	Absolute pressure / deformation and digital manometers and pressure transducers	0 kPa	to	100 kPa	medium air	26 Pa	Comparison with a digital manometer	92/75-15-1, 92/75-15-2, 92/75-15-3
		100 kPa	to	200 kPa		1.10 <sup>-4</sup> + 23 Pa		

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<sup>2</sup> The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M a part of CMC and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the measured value. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.

<sup>3</sup> If the document identifying the calibration procedure is dated only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

<sup>4</sup> In the case of absolute pressure measurement (the resulting pressure is the sum of barometric pressure and gauge pressure), the CMC for absolute pressure measurement is one of the components of type B uncertainties.

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**CMC for the field of measured quantity: Temperature**

Ord. number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Location
		min	unit	max	unit					
1	Thermocouple S	100 °C	to	500 °C			0.70 °C	Comparison with a standard resistance sensor in a calibrating oven	92/75-14-1	
		400 °C	to	1,100 °C			1.6 °C	Comparison with a standard thermoelectric sensor in a horizontal furnace		
2	Thermocouple - base metals	0 °C	to	30 °C			0.40 °C	Comparison with a standard resistance sensor in a calibrating oven	92/75-14-1	
		30 °C	to	200 °C			0.43 °C	Comparison with a standard resistance sensor in a calibrating oven or oil bath		
		200 °C	to	500 °C			0.63 °C	Comparison with a standard resistance sensor in a calibrating oven		
		500 °C	to	1,100 °C			1.6 °C	Comparison with a standard thermoelectric sensor in a horizontal furnace		
3	Resistance thermometer	-30 °C	to	30 °C			0.27 °C	Comparison with a standard resistance sensor in a climatic chamber	92/75-14-2	
		30 °C	to	200 °C			0.16 °C	Comparison with a standard resistance sensor in oil bath		
		200 °C	to	500 °C			0.53 °C	Comparison with a standard resistance sensor in a calibrating oven		
4	Glass thermometer			0 °C			0.11 °C	Comparison with a standard resistance sensor in a Dewar flask	92/75-14-3	
		30 °C	to	200 °C			0.15 °C	Comparison with a standard resistance sensor in a calibrating oven or oil bath		
5	Analogue and digital thermometer	-30 °C	to	30 °C			0.27 °C	Comparison with a standard resistance sensor in a climatic chamber	92/75-14-4	
		30 °C	to	200 °C			0.16 °C	Comparison with a standard resistance sensor in a calibrating oven or oil bath		
		200 °C	to	500 °C			0.53 °C	Comparison with a standard resistance sensor in a calibrating oven		
		500 °C	to	1100 °C			1.6 °C	Comparison with a standard thermoelectric sensor in a horizontal furnace		

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Ord. num ber <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Locat ion
		min	unit	max	unit					
6*	Direct indicating thermometers and measuring chains	-30 °C		200 °C			0.30 °C	Comparison with a standard resistance thermometer in a calibrating oven	92/75-14-5	
		200 °C		500 °C			0.60 °C			
		500 °C		1,100 °C			1.7 °C	Comparison with a standard thermoelectric sensor		
7*	Temperature calibrators and meters							Simulation and measurement of DC voltage of thermoelectric temperature sensors	92/75-17-7	
	type R thermocouples	-50 °C		1,760 °C			2.1 °C			
	type S thermocouples	-50 °C		1,760 °C			2.1 °C			
	type B thermocouples	0 °C		1,820 °C			1.8 °C			
	type J thermocouples	-210 °C		1,200 °C			0.7 °C			
	type T thermocouples	-270 °C		400 °C			0.5 °C			
	type E thermocouples	-270 °C		1,000 °C			0.5 °C			
	type K thermocouples	-270 °C		1,370 °C			0.8 °C			
	type N thermocouples	-270 °C		1,300 °C			0.8 °C			
	Pt100 resistance sensors	-200 °C		850 °C			0.4 °C	Simulation and measurement of resistance of resistance temperature sensors		
	Pt200 resistance sensors	-200 °C		850 °C			0.3 °C			
	Pt1000 resistance sensors	-200 °C		850 °C			0.5 °C			
	Ni100 resistance sensors	-60 °C		250 °C			0.2 °C			

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**CMC for the field of measured quantity: Air humidity**

Ord. number 1	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Location
		min	unit	max	unit					
1	Analogue and digital hygrometers, humidity transducers and humidity measuring chains, including humidity probes	10 % RH		to	90 % RH	18°C to 28°C	1.4 % RH	Comparison with a reference humidity transducer in a climatic chamber	92/75-14-6	

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**CMC for the field of measured quantity: Electrical quantities**

Ord. number 1	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Locati on
		min	unit	max	unit					
1*	DC voltage / DC voltage meters and sources	0 mV	to	10 mV			0.0050 % + 0.3 µV 0.0017 % 0.0010 % 0.0009 % 0.0014 %	Comparison or direct measurement with a standard multimeter	92/75-17-1, 92/75-17-6, 92/75-17-9	
	inspection equipment	1 kV	to	5 kV			0.48 %	Measurement by a calibrator of inspection instruments		
2*	DC current / DC current meters and sources	1 µA	to	10 µA			0.015 % 0.012 % 0.0082 %	Comparison or direct measurement with a standard multimeter	92/75-17-1, 92/75-17-6, 92/75-17-9	
		10 µA	to	200 µA						
		200 µA	to	20 mA						
		20 mA	to	10 A			0.0062 % 0.013 % 2.4 %	Comparison or measurement with a standard multimeter with a current shunt		
		10 A	to	100 A						
		100 A	to	1000 A						
	clamp tester	1 mA	to	1000 A			0.35 %	Measurement of current simulated by a standard calibrator with current coil		

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Ord. number 1	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Locati on
		min	unit	max	unit					
3*	AC voltage / AC voltage meters and sources	10 mV to 200 mV				40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	0.020 % + 15 µV 0.015 % + 14 µV 0.022 % + 15 µV 0.040 % + 15 µV	Comparison or direct measurement with a standard multimeter	92/75-17-1, 92/75-17-6, 92/75-17-9	
		200 mV to 2 V				40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	0.089 % + 15 µV 0.013 % + 32 µV 0.012 % + 32 µV 0.013 % + 32 µV 0.025 % + 52 µV			
		2 V to 20 V				40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	0.059 % + 0.24 mV 0.013 % + 0.32 mV 0.012 % + 0.32 mV 0.013 % + 0.32 mV 0.025 % + 0.52 mV			
		20 V to 200 V				40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	0.059 % + 2.4 mV 0.014 % + 3.2 mV 0.012 % + 3.2 mV 0.014 % + 3.2 mV 0.026 % + 5.2 mV			
		200 V to 1000 V				40 Hz to 10 kHz 10 kHz to 30 kHz	0.059 % + 24 mV 0.015 % + 26 mV 0.031 % + 58 mV			
	inspection equipment	1 kV to 5 kV				50 Hz, 60 kHz	0.48 %	Measurement by a calibrator of inspection instruments		

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		min	unit	max	unit					
4*	AC current / AC current meters and sources	10 µA	to	200 µA		40 Hz to 1 kHz 1 kHz to 5 kHz	0.035 % + 0.024 µA 0.048 % + 0.024 µA	Comparison or direct measurement with a standard multimeter	92/75-17-1, 92/75-17-6, 92/75-17-9	
		200 µA	to	2 mA		40 Hz to 1 kHz 1 kHz to 5 kHz	0.033 % + 0.24 µA 0.038 % + 0.24 µA			
		2 mA	to	20 mA		40 Hz to 1 kHz 1 kHz to 5 kHz	0.033 % + 2.4 µA 0.038 % + 2.4 µA			
		20 mA	to	200 mA		40 Hz to 1 kHz 1 kHz to 5 kHz	0.032 % + 24 µA 0.037 % + 24 µA			
		200 mA	to	2 A		40 Hz to 1 kHz 1 kHz to 5 kHz	0.075 % + 0.24 mA 0.086 % + 0.24 mA			
		2 A	to	10 A		50 Hz, 60 Hz	0.035 % + 0.16 mA	Comparison or measurement with a standard multimeter with a current shunt		
		10 A	to	1000 A		50 Hz, 60 Hz	0.33 %	Comparison or measurement with a standard multimeter with a current transformer		
	clamp tester	0,1 A	to	1000 A		50 Hz, 60 Hz	0.36 % + 0.12 A	Measurement of current simulated by a standard calibrator with current coil		



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Ord. number 1	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Locati on	
		min	unit	max	unit						
5*	Electrical resistance / DC resistance standards	0,1 mΩ 1 mΩ 10 mΩ 0,1 Ω 1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ					0.012 % 0.0030 % 0.0015 % 0.0015 % 0.0015 % 0.0015 % 0.0015 % 0.0015 % 0.0015 % 0.0015 %	Comparison with the resistance standard by the substitution method	92/75-17-5, 92/75-17-6, 92/75-17-9		
		DC resistance meters and generators					0.015 % 0.011 %				Comparison or measurement using the Ohm method
		1 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 20 kΩ 20 kΩ to 200 kΩ 200 kΩ to 2 MΩ 2 MΩ to 20 MΩ 20 MΩ to 100 MΩ 100 MΩ to 1 GΩ 1 GΩ to 10 GΩ					0.0034 % 0.0022 % 0.0018 % 0.0022 % 0.0040 % 0.0076 % 0.058 % 0.65 % 1.2 %				Comparison or direct measurement with a standard multimeter
		10 GΩ to 100 GΩ					3.5 %				Generation by a calibrator of inspection instruments

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6*	DC resistance meters and generators	0,1 mW to 100 kW				0.1 V to 1000 V 1 mA to 20 mA	0.0092 %	Comparison or measurement with two standard multimeters	92/75-17-5, 92/75-17-6, 92/75-17-7, 92/75-17-9	
						0.1 V to 1000 V 20 mA to 200 mA 200 mA to 10 A 10 A to 100 A	0.0065 % 0.0070 % 0.013 %	Comparison or measurement with two standard multimeters and a current shunt		
	clamp tester	0,01 W to 1000 kW				0.1 V to 1000 V 0.1 A to 1000 A	0.36 %	Measurement of power simulated by a standard calibrator with current coil		
7*	AC power (50 Hz or 60 Hz; power factor 0.5 to 1.0 inductive) / AC wattmeters or AC power generators	0,1 W to 12 kW				10 V to 60 V 20 mA to 10 A 10 A to 20 A	0.8 mW/VA 1.3 mW/VA	Comparison or direct measurement with a standard wattmeter	92/75-17-6, 92/75-17-8	
						60 V to 450 V 20 mA to 10 A 10 A to 20 A	0.7 mW/VA 1.2 mW/VA			
						450 V to 600 V 20 mA to 10 A 10 A to 20 A	0.94 mW/VA 1.7 mW/VA			
	clamp tester	0,5 W to 600 kW				10 V to 600 V 0.1 A to 1000 A	5.8 mW/VA	Measurement of power simulated by a standard calibrator with current coil		

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**CMC for the field of measured quantity: Time and frequency quantities**

Ord. number 1	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Locati on
		min	unit	max	unit					
1 *	Frequency / frequency generators	10 Hz		to	225 MHz	1 mV to 10 V	0.0014 %	Direct measurement by a standard counter	92/75-17-6	
	frequency meters	1 Hz		to	10 MHz	1 mV to 10 V	0.0050 %	Generation with calibrator		

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*"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself. "*